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<u>L5</u>	11 and 12 and L4	1	<u>L5</u>
<u>L4</u>	methyl-beta-cyclodextrin or mbetacd	203	<u>L4</u>
<u>L3</u>	11 with 12	3	<u>L3</u>
<u>L2</u>	(remov\$ or reduc\$ or decreas\$ or diminish\$) near7 (alcohol or sterol or cholesterol)	50185	<u>L2</u>
<u>L1</u>	(oligosaccharide or trehalose or mannose or sucrose or fructose) near6 cell	4123	<u>L1</u>

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-
- ☐ 1. 20020114791. 16 Jan 02. 22 Aug 02. Erythrocytic cells and method for preserving cells.
Crowe, John H., et al. 424/93.21; 514/178 A61K048/00 A61K031/56.
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- ☐ 1. [20020155126](#). 13 Feb 01. 24 Oct 02. Pharmacological composition containing yeast cell wall fraction. Shirasu, Yoshiharu, et al. 424/195.16; A61K035/72.
-
- ☐ 2. [20020114791](#). 16 Jan 02. 22 Aug 02. Erythrocytic cells and method for preserving cells. Crowe, John H., et al. 424/93.21; 514/178 A61K048/00 A61K031/56.
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- ☐ 3. [5733762](#). 31 Oct 96; 31 Mar 98. Complexes of nucleic acid and polymer, their process of preparation and their use for the transfection of cells. Midoux; Patrick, et al. 435/458; 435/325 514/44 530/300 530/345 530/350 530/395 530/402 536/23.2 536/23.5 536/23.7 536/24.5. C07K001/00 C07K001/107 C12N015/00 C12N015/88.
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FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 16:25:36 ON 12 JUN 2003

L1 29117 S (OLIGOSACCHARIDE OR TREHALOSE OR SUCROSE OR FRUCTOSE OR MANNO
L2 143146 S (REMOV? OR REDUC? OR DECREAS? OR DIMINISH?) (7A) (ALCOHOL OR ST
L3 43 S L1(S)L2
L4 2850 S METHYL-BETA-CYCLODEXTRIN OR MBETACD
L5 4 S L3 AND L4
L6 260 S L2 AND L4
L7 0 S L6 AND (EUKARYOTIC OR ERYTHROCYTIC) (3A) CELL
L8 27 DUP REM L3 (16 DUPLICATES REMOVED)
L9 2 DUP REM L5 (2 DUPLICATES REMOVED)

=> d bib ab 1-2 l9

L9 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 2001:525427 BIOSIS
DN PREV200100525427
TI Fluorescence anisotropy measurements of lipid order in plasma membranes
and lipid rafts from RBL-2H3 mast cells.
AU Gidwani, Arun; Holowka, David; Baird, Barbara (1)
CS (1) Department of Chemistry and Chemical Biology, Baker Laboratory,
Cornell University, Ithaca, NY, 14853-1301: bab13@cornell.edu USA
SO Biochemistry, (October 16, 2001) Vol. 40, No. 41, pp. 12422-12429. print.
ISSN: 0006-2960.
DT Article
LA English
SL English
AB Specialized plasma membrane domains known as lipid rafts participate in
signal transduction and other cellular processes, and their liquid ordered
(Lo) phase appears to be important for their function. To quantify ordered
lipids in biological membranes, we investigated steady-state fluorescence
anisotropy of two lipid probes, 2-(3-(diphenylhexatrienyl)propanoyl)-1-
hexadecanoyl-sn-glycero-3-phosphocholine (DPH-PC) and N-(7-nitrobenz-2-oxa-
1,3-diazol-4-yl)-1,2-dihexadecanoyl-sn-glycero-3-phosphoethanolamine
(NBD-PE). We show using model membranes with varying amounts of
cholesterol that steady-state fluorescence anisotropy is a sensitive
measure of cholesterol-dependent ordering. The results suggest that DPH-PC
is a more sensitive probe than NBD-PE. In the presence of cholesterol,
ordering also depends on the degree of saturation of the phospholipid acyl
chains. Using DPH-PC, we find that the plasma membrane of RBL-2H3 mast
cells is substantially ordered, roughly 40%, as determined by comparison
with anisotropy values for model membranes entirely in a liquid ordered
(Lo) phase and in a liquid disordered (Lalpha) phase. This result is
consistent with the finding that apprx30% of plasma membrane phospholipids
are insoluble in 0.5% Triton X-100. Furthermore, detergent-resistant
membranes isolated by **sucrose** gradient fractionation of Triton
X-100 cell lysates are more ordered than plasma membrane
vesicles, suggesting that they represent a more ordered subset of the
plasma membrane. Treatment of plasma membrane vesicles with **methyl**
-beta-cyclodextrin resulting in 75%
cholesterol depletion leads to commensurate **decreases** in
lipid order as measured by anisotropy of DPH-PC and NBD-PE. These results
demonstrate that steady-state fluorescence anisotropy of DPH-PC is a
useful way to measure the amount of lipid order in biological membranes.

L9 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AN 1999:325553 BIOSIS
DN PREV199900325553
TI Critical role for cholesterol in Lyn-mediated tyrosine phosphorylation of

FcepsilonRI and their association with detergent-resistant membranes.
 AU Sheets, Erin D.; Holowka, David (1); Baird, Barbara (1)
 CS (1) Department of Chemistry and Chemical Biology, Baker Laboratory,
 Cornell University, Ithaca, NY, 14853-1301 USA
 SO Journal of Cell Biology, (May 17, 1999) Vol. 145, No. 4, pp. 877-887.
 ISSN: 0021-9525.
 DT Article
 LA English
 SL English
 AB Tyrosine phosphorylation of the high affinity immunoglobulin (Ig)E
 receptor (FcepsilonRI) by the Src family kinase Lyn is the first known
 biochemical step that occurs during activation of mast cells and basophils
 after cross-linking of FcepsilonRI by antigen. The hypothesis that
 specialized regions in the plasma membrane, enriched in sphingolipids and
 cholesterol, facilitate the coupling of Lyn and FcepsilonRI was tested by
 investigating functional and structural effects of cholesterol depletion
 on Lyn/FcepsilonRI interactions. We find that **cholesterol**
 depletion with **methyl-beta-cyclodextrin**
 substantially **reduces** stimulated tyrosine phosphorylation of
 FcepsilonRI and other proteins while enhancing more downstream events that
 lead to stimulated exocytosis. In parallel to its inhibition of tyrosine
 phosphorylation, cholesterol depletion disrupts the interactions of
 aggregated FcepsilonRI and Lyn on intact cells and also disrupts those
 interactions with detergent-resistant membranes that are isolated by
sucrose gradient ultracentrifugation of lysed **cells**.
 Importantly, cholesterol repletion restores receptor phosphorylation
 together with the structural interactions. These results provide strong
 evidence that membrane structure, maintained by cholesterol, plays a
 critical role in the initiation of FcepsilonRI signaling.

=> d 1-27 au ti so l8

L8 ANSWER 1 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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AU Kilkus, John; Goswami, Rajendra; Testai, Fernando D.; Dawson, Glyn (1)
 TI Ceramide in rafts (Detergent-Insoluble Fraction) mediates cell death in
 neurotumor cell lines.
 SO Journal of Neuroscience Research, (April 1 2003) Vol. 72, No. 1, pp.
 65-75. print.
 ISSN: 0360-4012.

L8 ANSWER 2 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
 2

AU Wang, Yan; Yamaguchi, Kazunori; Wada, Tadashi; Hata, Keiko; Zhao, Xuejian;
 Fujimoto, Toyoshi; Miyagi, Taeko (1)
 TI A close association of the ganglioside-specific sialidase Neu3 with
 caveolin in membrane microdomains.
 SO Journal of Biological Chemistry, (July 19, 2002) Vol. 277, No. 29, pp.
 26252-26259. <http://www.jbc.org/>. print.
 ISSN: 0021-9258.

L8 ANSWER 3 OF 27 MEDLINE DUPLICATE 3

AU Anterola Aldwin M; Jeon Jae-Heung; Davin Laurence B; Lewis Norman G
 TI Transcriptional control of monolignol biosynthesis in Pinus taeda: factors
 affecting monolignol ratios and carbon allocation in phenylpropanoid
 metabolism.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 May 24) 277 (21) 18272-80.
 Journal code: 2985121R. ISSN: 0021-9258.
 (Investigators: Lewis N G, WA St U, Pullman)

L8 ANSWER 4 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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AU Mallouchos, A.; Reppa, P.; Aggelis, G.; Kanellaki, M.; Koutinas, A. A.;

- Komaitis, M. (1)
- TI Grape skins as a natural support for yeast immobilization.
- SO Biotechnology Letters, (August, 2002) Vol. 24, No. 16, pp. 1331-1335.
<http://www.kluweronline.com/issn/0141-5492>. print.
 ISSN: 0141-5492.
- L8 ANSWER 5 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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- AU Ishihara, Masanobu (1); Nerome, Miho; Taira, Toki; Tawata, Shinkichi;
Kobamoto, Naotada
- TI Release of ferulic acid from rice koji in Awamori brewing: Note.
- SO Seibutsu-Kogaku Kaishi, (2002) Vol. 80, No. 12, pp. 563-567. print.
 ISSN: 0919-3758.
- L8 ANSWER 6 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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- AU Stefanov, Kamen; Nechev, Jordan; Lavchieva-Nacheva, Ganina; Nikolova,
Nelly; Seizova, Katya; Kwartirnikov, Michail; Lavchiev, Valentin; Popov,
Simeon (1)
- TI Lipids and sterols in *Musca domestica* L. (Diptera, Muscidae): Changes
after treatment with sucrose and lead.
- SO Comparative Biochemistry and Physiology Part B Biochemistry & Molecular
Biology, (March, 2002) Vol. 131B, No. 3, pp. 543-550.
<http://www.elsevier.com/locate/cbpb>. print.
 ISSN: 1096-4959.
- L8 ANSWER 7 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
7
- AU Gidwani, Arun; Holowka, David; Baird, Barbara (1)
- TI Fluorescence anisotropy measurements of lipid order in plasma membranes
and lipid rafts from RBL-2H3 mast cells.
- SO Biochemistry, (October 16, 2001) Vol. 40, No. 41, pp. 12422-12429. print.
 ISSN: 0006-2960.
- L8 ANSWER 8 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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- AU Luker, Gary D.; Pica, Christina M.; Kumar, A. Sampath; Covey, Douglas F.;
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- TI Effects of cholesterol and enantiomeric cholesterol on P-glycoprotein
localization and function in low-density membrane domains.
- SO Biochemistry, (July 4, 2000) Vol. 39, No. 26, pp. 7651-7661.
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 ISSN: 0006-2960.
- L8 ANSWER 9 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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- AU Okamoto, Yasuo; Ninomiya, Haruaki; Miwa, Soichi; Masaki, Tomoh (1)
- TI Cholesterol oxidation switches the internalization pathway of endothelin
receptor type A from caveolae to clathrin-coated pits in Chinese hamster
ovary cells.
- SO Journal of Biological Chemistry, (March 3, 2000) Vol. 275, No. 9, pp.
6439-6446. print.
 ISSN: 0021-9258.
- L8 ANSWER 10 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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- AU Sheets, Erin D.; Holowka, David (1); Baird, Barbara (1)
- TI Critical role for cholesterol in Lyn-mediated tyrosine phosphorylation of
FcepsilonRI and their association with detergent-resistant membranes.
- SO Journal of Cell Biology, (May 17, 1999) Vol. 145, No. 4, pp. 877-887.
 ISSN: 0021-9525.
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AU Myers, Simon J.; Stanley, Keith K. (1)
 TI Src family kinase activation in glycosphingolipid-rich membrane domains of
 endothelial cells treated with oxidised low density lipoprotein.
 SO Atherosclerosis, (April, 1999) Vol. 143, No. 2, pp. 389-397.
 ISSN: 0021-9150.

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 AU Leonardo, Michael R.; Cunningham, Philip R.; Clark, David P. (1)
 TI Anaerobic regulation of the adhE gene, encoding the fermentative alcohol
 dehydrogenase of Escherichia coli.
 SO Journal of Bacteriology, (1993) Vol. 175, No. 3, pp. 870-878.
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L8 ANSWER 13 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
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 AU BARBOSA M D F S; LEE H
 TI PLASMA MEMBRANE MAGNESIUM ATPASE OF PACHYSOLEN-TANNOPHILUS
 CHARACTERIZATION AND ROLE IN ALCOHOL TOLERANCE.
 SO APPL ENVIRON MICROBIOL, (1991) 57 (7), 1880-1885.
 CODEN: AEMIDF. ISSN: 0099-2240.

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 AU GUTIERREZ L E; ANNICCHINO A V K O; LUCATTI L; STIPP J M S
 TI EFFECTS OF ACETIC ACID ON ALCOHOLIC FERMENTATION.
 SO ARQ BIOL TECNOL (CURITIBA), (1991) 34 (2), 235-242.
 CODEN: ABTTAP. ISSN: 0365-0979.

L8 ANSWER 15 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU ECHEVARRIA F; NORTON R A; NES W D; LANGE Y
 TI ZYMOSTEROL IS LOCATED IN THE PLASMA MEMBRANE OF CULTURED HUMAN
 FIBROBLASTS.
 SO J BIOL CHEM, (1990) 265 (15), 8484-8489.
 CODEN: JBCHA3. ISSN: 0021-9258.

L8 ANSWER 16 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU ANTHON G E; EMERICH D W
 TI DEVELOPMENTAL REGULATION OF ENZYMES OF SUCROSE AND HEXOSE METABOLISM IN
 EFFECTIVE AND INEFFECTIVE SOYBEAN NODULES.
 SO PLANT PHYSIOL (BETHESDA), (1990) 92 (2), 346-351.
 CODEN: PLPHAY. ISSN: 0032-0889.

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 AU RAO M V
 TI HISTOPHYSIOLOGICAL CHANGES OF SEX ORGANS IN METHYLMERCURY INTOXICATED
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 SO ENDOCRINOL EXP, (1989) 23 (1), 55-62.
 CODEN: ENEXAM. ISSN: 0013-7200.

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 AU GRUDA I; GAUTHIER E; ELBERG S; BRAJTBURG J; MEDOFF G
 TI EFFECTS OF THE DETERGENT SUCROSE MONOLAURATE ON BINDING OF AMPHOTERICIN B
 TO STEROLS AND ITS TOXICITY FOR CELLS.
 SO BIOCHEM BIOPHYS RES COMMUN, (1988) 154 (3), 954-958.
 CODEN: BBRCA9. ISSN: 0006-291X.

L8 ANSWER 19 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU DE CABRERA S; DEL CARMEN DE ARRIOLA M; ROLZ C
 TI EFFECTS OF SUGARCANE CHIP PRETREATMENTS ON THEIR CONVERSION TO ETHANOL
 USING THE EX-FERM PROCESS PARTICLE SIZE STORAGE DRYING OR ENSILAGE.
 SO ENZYME MICROB TECHNOL, (1986) 8 (8), 491-497.
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L8 ANSWER 20 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU DELLA-CIOPPA G; MUFFLY K E; YANAGIBASHI K; HALL P F
 TI PREPARATION AND CHARACTERIZATION OF SUBMITOCHONDRIAL FRACTIONS FROM
 ADRENAL CELLS.
 SO MOL CELL ENDOCR, (1986) 48 (2-3), 111-120.
 CODEN: MCEND6. ISSN: 0303-7207.

L8 ANSWER 21 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU SKILLETER D N; PRICE R J; THORPE P E
 TI MODIFICATION OF THE CARBOHYDRATE IN RICIN WITH METAPERIODATE AND
 CYANOBOROHYDRIDE MIXTURES EFFECT ON BINDING UPTAKE AND TOXICITY TO
 PARENCHYMAL AND NON-PARENCHYMAL CELLS OF RAT LIVER.
 SO BIOCHIM BIOPHYS ACTA, (1985) 842 (1), 12-21.
 CODEN: BBACAQ. ISSN: 0006-3002..

L8 ANSWER 22 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU VOLPE J J; GOLDBERG R I
 TI EFFECT OF TUNICAMYCIN ON 3 HYDROXY-3-METHYL GLUTARYL COENZYME A REDUCTASE
 IN C-6 GLIAL CELLS.
 SO J BIOL CHEM, (1983) 258 (15), 9220-9226.
 CODEN: JBCHA3. ISSN: 0021-9258.

L8 ANSWER 23 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU JACOBSON K; HOU Y; DERZKO Z; WOJCIESZYN J; ORGANISCIAK D
 TI LIPID LATERAL DIFFUSION IN THE SURFACE MEMBRANE OF CELLS AND IN MULTI BI
 LAYERS FORMED FROM PLASMA MEMBRANE LIPIDS.
 SO BIOCHEMISTRY, (1981) 20 (18), 5268-5275.
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 AU CHINOY N J; SHARMA J D; SEETHALAKSHMI L; SANJEEVAN A G
 TI EFFECTS OF PROSTAGLANDINS ON HISTO PHYSIOLOGY OF MALE REPRODUCTIVE ORGANS
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 SO INT J FERTIL, (1980 (RECD 1981)) 25 (4), 267-274.
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L8 ANSWER 25 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AU ATKINSON A; ELLWOOD D C; EVANS C G T; YEO R G
 TI PRODUCTION OF ALCOHOL BY BACILLUS-STEAROTHERMOPHILUS.
 SO BIOTECHNOL BIOENG, (1975) 17 (9), 1375-1377.
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 AU Bourne, E. J.; Hartigan, J.; Weigel, H.
 TI Mechanism of the enzymic synthesis of a branched trisaccharide containing
 the .alpha.-1,2 glycosidic linkage
 SO Journal of the Chemical Society, Abstracts (1959) 2332-7
 CODEN: JCSAAZ; ISSN: 0590-9791

L8 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2003 ACS
 AU Geoghegan, M. J.; Brian, R. C.
 TI Influence of bacterial polysaccharides on aggregate formation in soils
 SO Nature (1946), 158, 837

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